GENERAL SPECIFICATIONS

THIS WORK SHALL CONSIST OF FURNISHINGLE MATERIALS FOR, AND CONSTRUCTING MASONRY SOUND BARRIERS IN ACCORDANOWITH PLAN DETAILS, THE APPLICABLE CONNECTICUT DEPARTMENT OF TRANSPORTATION AND SPECIFICATIONS, THE APPLICABLE REQUIREMENTS OF THE ACI, BIA, AND NCMAAND THE FOLLOWING

- ALL CONCRETE SHALL BE CLASS "A" ONDNFORMANCE WITH SECTION 6.01 OF THE D.O.T. STANDARD SPECIFICATIONS. SEEDETAIL FOR PRECAST SPECIFICATION.
- ALL GROUT SHALL MEET THEREQUIREMENTS OF STANDARD SPECIFICATIONSOR GROUTED REINFORCED AND NON-REINFORCED MASONRIM ACCORDANCE WITH ASTM C476, AND ACL5.31.1-76 (REV. 1983), UNI ESSTHERWISE NOTED.
- MASONRY MORTAR SHALL BE TYPE "SONFORMING TO ASTM C270. MORTAR SHALL ALSO CONTAIN AN INTEGRAL WATERPROOFINGMIXTURE.
- REINFORCING STEEL SHALL BE IMACCORDANCE WITH ASTM A615 GRADE 60.
- JOINT REINFORCEMENT SHALL BEFABRICATED FROM STEEL WIRE CONFORMING TO ASTM A 82 AND SHALL BE $\frac{1}{16}$ "x $\frac{1}{16}$ " TRUSS TYPE (EXTRA HEAVY) HOT DIP GALVANIZED AFTER FABRICATION INACCORDANCE WITH ASTM A153 CLASS B-2. STRAP TIES SHALL BE $\frac{3}{16}$ "x $\frac{1}{4}$ "x 12" LONG GALVANIZED STEEL CONFORMING TO ASTM A123 AND GROUTED SOLIDLY 16" O. GERTICALLY.
- ALL BOLTS, ANCHORS, AND TIES SHALLBE GALVANIZED CONFORMING TO ASTM A153 CLASS B-2 AND SHALL BE SOLIDLY EMBEDDEM MORTAR OR GROUT, DOWELS OR TIES IN CONNECTION WITH MASONRY COPINGS SHALBE STAINLESS STEEL CONFORMING TO AISI 300 SERIES AND ASTM 167.
- CONCRETE MASONRY UNITS SHALL CONFORM THE LATEST REQUIREMENTS OF ASTM C90, ASTM C145, ASTM C129, AND ASTM C331 REGISTWEIGHT ACORRECATES AND ASTM C744 FOR PREF-FACED UNITS. FOLLOW MANUFACTURER BECOMMENDATIONS FOR ALL PROFILE AND CUSTOM MASONRY UNITS INTEGRAIWATERPROCEING ADMIXTURE IS RECOMMENDED FOR ALL EXPOSED EXTERIOR UNITS. ALMASONRY UNITS SHALL BE LAD IN RUNNING BOND WITH FULL HEAD AND BED JOINTS WITH MAXIMUM THICKNESS OF 1/2", STACKBOND INDICATED FOR PIER CONSTRUCTION-RUNNINGOND AT DESIGNERS OPTION WHEREPPLICABLE.
- ACOUSTICAL SOUND ABSORBING MASONRYINITS, IF REQUIRED, SHALL CONFORM TO THE APPLICABLE REQUIREMENTS FOR STANDARDONCRETE MASONRY UNITS AS STATED ABOY MANUFACTURERS RECOMMENDATIONS, AND THE OLLOWING:
- SOUNDBLOX BY THE PROUDFOOT COMPANY INC.
- ASTRA-GLAZE BY NABCO GLAZED PRODUCTS - ACOUSTA-WALL BY NABCO GLAZED PRODUCTS
- CHECK LOCAL BLOCK SUPPLIERS FOR OTHERS
- CLAY MASONRY (BRICK) SHALL CONFORTO ASTM SPECIFICATIONS C2/6, C62, AND C126 FOR SOLID (75%) BUILDING BRICKACING BRICK AND CERAMIC GLAZED UNITS MADE FROM CLAY AND/OR SHALE, BRICKSHALL BE GRADE SW FOR EXTERIOR USE

SOUND REFLECTIVE BARRIERS DESIGN SUGGESTIONS

WALL TYPE 1 - 8" SINGLE WYTHCONSTRUCTION

LIGHT WEIGH
(8x8) SCOR
LIGHT WEIGH
(8x8) SCOR
SPLIT RIBBE
FLUTED UNITS
PROFILE BLOCK STANDARD STANDARD SCORED WEIGHT SCORED STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD 8x8x24 8x8x24 8x8x16 8x8x16 8x8x16 8x8x16 RIBBED BLOCK SPLIT FACE UNITS 8×8×16 8" UNIT GROUND FACE BLOCK THRU - WALL BRICK STANDARD MODUL AR

DESIGN OPTIONS: COLOR, TEXTURE, AND FINISH
 COMBINATIONS OF ANY SUGGESTED 3) CONSULT YOUR LOCAL SUPPLIERS FOR OTHER PRODUCTS AVAILABLE

WALL TYPE 2 - 8" COMPOSITE WALIASSEMBLIES

- ANY COMBINATION OF BLOCK UNITS LISTED ABOVE USING 2 4" (3 %") WYTHES
 - (1E) STANDARD 4x8x24 AND 4x8xLSEPLIT RIB
 (IE) DOUBLE FACE WALL 2 WYTHESPLIT FACE
 (IE) STRUCTURAL GLAZED TILE OR BLOOMALLS
- ANY BLOCK UNIT LISTED ABOVE (4") IN COMBINATION WITH BRICK

STANDARD BRICK, JUMBO, ECONOMY, UTILITY,

- ANY COMBINATION OF BLOCK UNITS AND STONE ANGEL STONE, LIMESTONE, ARCHITECTURAL PRECAST, MARBLE, GRANITE, ETC.
- COMPOSITE WALL OPTIONS

BRICK, STONE, ETC. 2 - 4" WYTHES

OPTIONAL FINISHES

STUCCO, PLASTER, EXTERIOR SYNTHETICINISH

GENERAL SPECIFICATIONS

- 10. CONTROL JOINTS SHALL BE 3/4" CLOSEDELL NEOPRENE AND LOCATED AT PIERS WITH A MAXIMUM OF 26"-0" O.C. WIREREINFORCING OR STRAP TIES SHALL BE CONTINUOUS THRU CONTROL JOINTS EVANSION JOINTS SHALL BE 1/2" CLOSED CELL NEOPRENE AND LOCATED EVERY THROONTROL JOINT SONT ON TO CONTINUE WIRE REINFORCING THRU EXPANSION JOINTS ANCHOR MASONRY WITH A PIN AND SLEEVE CONNECTION AT EXPANSION JOINTS. CLOSEDELL NEOPRENE SHALL CONFORM TO ASTM C509AND ASTM D1056.
- 11. STONE FILL SHALL MEET GRADATIONEQUIREMENTS OF ARTICLE M.OLOI OF THE D.O.T. STANDARD SPECIFICATIONSGRADATION MAY MEET ANY TABLE SIZE FROM 5/6" TO 2"PLACED TO A MINIMUM DEPTH 02" ABOVE THE BOTTOM OF THE HIGHEST WALL, WITH A TOTAL DEPTH NO LESS THAIN 4".
- 12. EXECUTION FOLLOW APPLICABLE CODESOR THE PROPER INSTALLATION OF ALL MASONRY UNITS INCLUDING SAMPLES. TESTEND QUALITY ASSURANCE
- 13. OTHER MASONRY MATERIALS
 SPECIFICATIONS FOR OTHER MASONRYMATERIALS SHALL CONFORM TO GENERAL
 REQUIREMENTS AS LISTED ABOVE ANDRECOMMENDATIONS FROM APPLICABLE
 MANUFACTURERS AND ASSOCIATIONSREQUIREMENTS FOR THE FOLLOWING: 1. STRUCTURAL GLAZE TILE AND GLAZEBLOCK
 2. GLASS BLOCK
- LIMESTONE
 GRANITE
- 5. MARBLE

- 5. MARBLE
 6. SLATE
 7. FIELD STONE
 8. PRE-CAST ORNAMENTAL STONE
 9. CERAMIC TILE
 10. TERRAZZO
- 11 EXTERIOR SYNTHETIC FINISHES

- II. EXTERIOR STRITETIC FINISHES
 12. PLASTER
 13. TERRA-COTTA
 14. SURFACE BONDED MASONRY
 15. PAINTS, SEALANTS, AND DECORATIVEINISHES
- 14. DESIGN DATA WIND LOAD PRESSURE
- WIND LOAD PRESSURE
 LATERAL SOIL BEARING
 SOIL UNIT WEIGHT
 ANGLE OF INTERNAL FRICTION
 WIRE REINFORCEMENT
 REBAR REINFORCEMENT
- CONCRETE COMPRESSIVE STRENGTH
 CONCRETE OR GROUT COMPRESSIVE STRENGTH
 PRECAST CONCRETE BEAM
- MASONRY WITH INSPECTION

MASONRY WITHOUT INSPECTION

Fs = 30,000 P.S.I. Fs = 24,000 P.S.I. Fc' = 3.000 P.S.I. (CAISSONS) Fc' = 4,000 P.S.I. (PIERS) Fc' = 4,500 P.S.I.

120 P.C.F. (GRANULAR SOIL) 30 DEGREES

28 P.S.F. (85 M.P.H.) 400P.S.F. / FT. DEPTH

F'm = 1,700 P.S.I. FOR PIER MASONRY OVER 20 FT. IN HEIGHT

F'm = 1,900 P.S.I. F'm = 2,500 P.S.I. FOR PIER MASONRY OVER 20 FT. IN HEIGHT

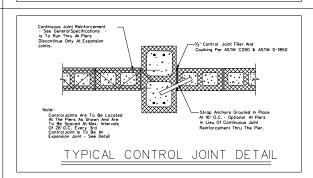
SOUND ABSORPTIVE BARRIERS DESIGN SUGGESTIONS

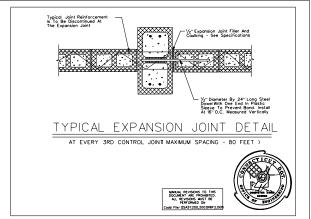
WALL TYPE 3 - 8" SINGLE WYTHECONSTRUCTION

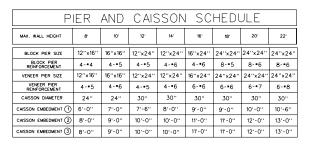
- 8x8x16 SOUND ABSORBING MASONRY UNITS ARE AVAILABLE IN A VARIETY OF FINISHES IN BOTH LOAD BEARING AND NON-LOAD BEARINGNITS.
- EXAMPLES OF SOUND ABSORBING MASONRUNITS:
 - STANDARD LIGHTWEIGHT LINITS
 - GLAZED UNITS GROUND FACE UNITS
 - SPLIT RIB UNITS PROFILE UNITS
- THESE UNITS ARE AVAILABLE IN A VARIETY OF TYPES DEPENDING ON THE SOUND ABSORBING REQUIREMENTS. REFERENCE STANDARDS ARE:
- SOUNDBLOX BY THE PROUDFOOT COMPANNC. ASTRA-GLAZE BY NABCO GLAZED PRODUCTS ACOUSTA-WALL BY NABCO GLAZED PRODUCTS CHECK LOCAL BLOCK SUPPLIERS FOR OTHERS

WALL TYPE 4 - 8" COMPOSITE WALASSEMBLIES

SOUND ABSORBING MASONRY UNITS ARE AVAILABLE IN 4", 6", 8", AND 12" WIDTHS AND MAY BE USED IN COMBINATION WITH EACH OTHER OR ANY OTHER MASONRY MATERIALS. REFER TO THE STANDARDS LISTED ABOVE.







① FLAT SURFACE WITH THE WATER TABLEOWER THAN 10 FEET ② FLAT SURFACE WITH THE WATER TABLE ATHE SURFACE ③ A SIDE SLOPE OF 2 TO 1 WITH A LOWKTER TABLE

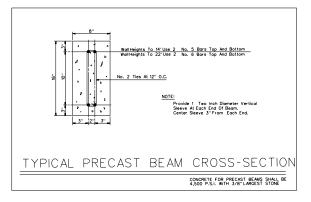
NOTES:

A) Vertical Pier Reinforcement To Extend Into Concrete Caissons A Minimum

Of 36 Bar Diameters.

B) Ties For All Piers To Be 1/4" Diameter At 8" O.C. Vertically.

C) Provide Horizontal Bond Beams With 2 No. 5 Bars (Continuous) At Top Of Wall.



MASONRY NOISE BARRIER WALL

Siegmar Knebl & Assoc M. Satagaj T. McMahon J. Jensen D.L. Coffey

12-30-88 12-3-90

916-F2

7-90